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England mar. 12 montes word Experimental Atation Old field just east 1?) of station. about 5-6 acres surrounded by hedges. gray clay withing of tall herbrand shrubs in a continuous grass ground a fine mat-former with a coarser erect species or two from the ground over alow arching Kubus is generally common exect in the sparsest areas. a tall Rosa, to 25 m very common, Dipsacus sylvestin locally abundant, to I'm tal a very few querous of petraca about & m, with many brown by low, Ehrlobium sp. (or oby.) 1-1,5 m abundant, also Cirium of. awense. In some parts the grass grund cover is replaced by a hypnoid mor with open rosettes of Dancus (3) of. Cirsium of ?, Dryofsteris of. plus a few other green rosetter. Very occasional saplings of traxinus of, queren rober 121 (leafler), a thorny Pynis (?? ", and perhaps other trees or should. a

1971 England dry grass 608 m barns occasional tufts, and a emphicum gregarions grass with white dry wide leaves and for rather close panicles forms palches, enf. in low sports. the know has non ridged canes, burple, very spring, partables becoming procumbent a prostrate a few leaves persisting white beneath, purple of varely green above Mammal (deer??) dropping and bird (pleasant? or chicken) droppings common.

Man. 14 - anto trip Cambridge to

Stretham and Wicken of an

Flat land - love

chalk "ridge" with

reddish brown silty

soil. Hedges, a few crehards, many pastures

* plowed fields. In

distance to north with west

slightly brigher ground

which is furassic ofto green

sand (plansnitis) "islands"

in the low, formerly wet

ground, The low ground

was formerly covered by

"meres", shallow ofpen-water fronds, now drained.

Stretham were - gray fine soil.

River Cam.

Slight elevation - a furassic cual reef.

Wicken

Wicken Fen - buried by national Trust. large area of seatland covered by a mosair of tell send of serub forest of demas Khammus, Kalix acer, etc. and patches of march or, rather, bog, of Chragmites and breatly Cladium, 1-2 mtall. Ihrs gran is periodically harvested On thatch. scattered in the scrub are occasional Betala alba showing a tremendous rangeof habit - whight almost fastigiate branching to pendulous. Very occasional Frazinus. Wales table essentially at surface of plat, Maintained thus artificially against the too effective drawings of the agricultural land, round about, which has

sunben even to below Je peat by decomposition a Ditch style windwill originally from adventuren fen, reconstructed her by the frust. Laid & by the last remaining of the thousands of "wind pump" the fens. a thatched tower "hide" movided for bird watching. The Wicken Fen group maintains and protects the fen, provider guide-booklets, The scrub is cut periodically to avoid succession to oak forest. Wichen north through Soham over somewhat higher Jurassic land. though quater and the Hasse - black pealy soilor low ground. Hows of large ulwers ofulus, etg. all land cultivaled. Prickwillow "Rottens" are old riverbeds of mineral sediments winding across the peat lands left now as slight ridges

by the subsidence of the drains treat lands. Light colored against the black peat soil. fese fertile than freat. Ely is on a very large Imassic "island" Pet land largely weed on sugar beet and market gardening. Ouse River channelized between leves and water level substantially higher than its platland surface. no hedges in peatlands. hand too valuable. Houses of frequently built on "nottens" more substantial than peat bo foundations. some of the notten have archeological remains of a number of levels on them. flocks of gulls are rather frequent on planed peatland. Deep ditches frequent, water table well below surface. approaching Mildenhall we left berland and got onto slightly higher challe land. Church best of flints. 15. aubase - Mildenhall. thint construction here is of angular fragments rather than of noduler, god much more crowded.

Mildenhall - very inegular brolly surface, stabilized duner of glacial sand. East of Wildenbull extensive planted gine frest and somixed hardwood, largely buch. Road lines by pine. gorse along road and in hedge and firest edge. Patilios of prines. Rolling heathland and and wast I teridium stands all of this - hime, heath brachen, on glacial rands on top of chalk. Planted here stands perhaps 20.25 cm dbh 10-15 m tall, very small oaks, 1-2 m, with persistent crange dead leaves common under pines l'atches and edger of birch. Wangford Warren Esuffolk naturalists Inst). Rolling area of partially stabilized, partly active dunes, tending to be grass a case everel, patches of buch, mostly weeking a few scattered very small Tunes and only sambuen. Tange areas principally stabilized by mosses & clarking

much dense care sod, plants
20. 29 cm tall.

Total relief perhaps 8-10 m.

Brandon - much flint construction.

Ours friest + birch forest, plantel.

Grimes graves wad.

Land heaths.

Dense hime plantation.

treer to 30 cm. Abh 30 cm tall

Lange open wea - grimes graves.

Eloctralle slope covered by

50 cm t of aerlian sand, the

grower in the challe surface.

normal to slope strike, are

reflected in stripes of Calluna.

There is the most of an area of dimpled tenain, appearing like suntre botes, but excavation shorter they are raise. shaped holes with horizontal shafts radiating, following flint nodule layers in challer-pits 20 m deep. ancient flint quinies. If read over top of Calluna stripes are of order of I'm wide, grass stripes of m. Challe is I'm a nove below the Calluna, 15 cm to below the grass.

thetford - longe area of this

West, fuffolk livit some bytes by heather. mostly ofen pastine will rows of trees, gas, Heather; but ofen. Then PAF Honington is mig Barnham a lunge fenced area basically a dense short grass matrix with beath 0.5-1 m tall with anall spening with deep moss, slopes with somewhat irregulas heath stripes, when part of very wide brook with scattered - Machimpy 1-2 m lace large spreading valu 50-200 in apart. Scattered over the whole champs of Cytisus 7-25'm tallgrass said to be recent clearing, but it seems The gare must be it least several years of flints abundant, much mors in guiss. grass to west on gentle slope with no shrubs at all Callina stripe in very gently slopes a few sheep,

West of this mean nowmarket road, Elvender, rather old mixed woods, patches with large and small fields and patelier of pine plantings. a trimmed from hedge along nermarket - forder road soul of Elvenden, bu several miles on one or both sides of road. Juiness property. Large heath area. tields separated by tree hedger mostly pero. about 12 mines of newmarket. 3 mi some Wildenhall. Same general landscape mosaic, at first more fields, then predominantly boest plantings. 5 road intersection near Barton Mills. now mostly fields with hedger, small patches of wood. Light gray-brown soil on fine chalk with only small flints. Chall quants. Kows and patcher of conifers, som birch. Hedera conspicuous climbing roadside trees. then, large fields, few hedger, some pratches of wood. gently rolling land. Lew hedges because of race-bonse building and riding, large pasting.

10 197\$1 England 1 will norther Meromanhet. Atrips of lecidows trees. Newmarket Large house in large lots. west to Cambridge Strips of trees between fields and along wads. Some hedger Carge fields. Soil reddish brown, then light gray, all on chalk. Hedger trimmed very low. Man 14 - Wangford Wanen. to semi-stabilized sand dunes 53636 Cladonia 37 Cladonia 38 Cladonia 39 Cladonia 40 Cladonia 41 (mores) for all of above - contributing to stabilizing of Mar. 14 1th mi mu of Barnham mar. 14 men grinnes graves, in Calluna stripes on gently sloping chall covered 42 Comosa) common

H I Perella navirularis (Lehm. & Lindenb.) Lindb.

53641 Polytrichum piliforum Hedw.
53642 Pleurozium schreberi (Brid.) Mitt.
53644 a ""
53645 a ""
Hypnum cupressiforme Hedw.

19781 England 1 will 10 norther of Newmarket. Strips of lecidury trees. Newmarket Lange house in large lots. west to Cambridge Strips of trees between fields and along way. some hedger. Cargo fields. Soil reddist brown; then light gray, all in challs Hedger trimmed very low. Mar. 14 - Wangford Warren. to semi- stabilized sand dunes 53636 Cladonia 37 Cladonia 38 Cladonia 39 Cladonia 40 Cladonia 41 (mrs) for all of above - contributing to stabilizing of Mar. 14 + to my mon of Barnham Mar. 14 near ginnes graves, in callina stripes on gently slopping challe overel

1971 England droay shoul 30-40 cm Cell. 53643 Calluna vulgaris Man, 141 - 15 mi on w of Baraham, Calluna heath in forming deep love custimes

faugure, Co. 14 1971 Vingina Mer. 21 Roland Bull Run Mt. Evergreens abundant on cliffs, searcely any away from them Pinus pungens Pinus vinghniana Kalmin letefolia Plants with photosynthetic stens Vaccinium vacillans dry

fanguier Co. 1971 Vinginia 16 noth foranch Peroal Kun march 28 - Roland bottom land great 2 seepy areas where locally swampy. springs were from american elm occasione, base of mits, and alm will conly bank very small streams rare, tothe in flower. some down off lower stopes, Ked maple in Jul flower. one on each side of Roland center. In me a lange 2 wood-ducks in stream, Vaccinum 2,5 m, near the other a smaller trush. In bud but no blower oping. In each a small clumy of tyroproducing lucidulus and is each is small stand of Chrysosplenum; this in areas just below springs, absent from wet place ged by streamlts Mas. 23 - north branch of Broad Run, 2 miles west of Thoroughfrane gay bottom land words on clay flats 53643 Ulmur americang The 12 m tall, both flally, without copy ridges; anthers deep burgle occasional spreading tree is in tall, barr 8) 44 Ulmus with contry ridges; anther maron. man 28 - Roland Center, west base Bull Run mts, 2 min, wo of Throughfare gul Chrysoplenium americanum prostrate, flower green. very localing wet place fed

Indiana - Illinois 21 Kentucky - This - Indians 20 part (Knows Country?) diversed this River again now 608+ wooded low hilly country (8:27 blowing slightly northwest the Furge reservoir and south of 10:26 west then swinging nathwest. at an estremely complex Country rather billy on bolls maye of roads - elongate building rider, esf. the Centucky side, along many of them - military somewhat wooded. establishment? a higher wooded clumps of mels. Amall rives with extremely This kever goes more notherly, complex meander juttern for some distance, then more westerly, northern Kentucky with many ox bows scallend is very complicated - hilly. over a broad level plan, all cleared. From here in mostly River omes south again cleared except for a few ting they westward. Limitar worders. helly country on boly sides, Prob. Wabash R. Mostly agriabout 50% worsted, less so cultural land west of it, but westward tollow nines appearing somewhat scabby and slightly meandering westward. ended. Drainage trending Not much bottom land s. s. e. Toa generally e. - w. stream along most of it, except on with many oxobows swinging mines sides of curren m. w and win. crossed river (this 1.) -Meander and gx bow patterns band much more checkerbrand very visible at this season. fraller, 75% cleared. Cather regular agricultural tevel country, vives trending chesher waid except for sow. south west. Considerable hending malley that are partly wooded words along iver and in Visibility gradually determating several patches of bills, also on a grayish haze or thin down rending same direction. tain-rised builded iver, very Major a.w. ne highway. closely meandering, though agricultural pattern continues a clear valley. with some worded land then an area of pratches of megularly left along valley wooded hills just to north bottoms. with a large reservoir in west

22 buch worked valley betone numerous running sw. toward mississippi month of St. Louis. Consel Mississippi blowing almost eastward below confluence of missouri, which from a complex delta of worded bare and elongate pronds and channels. m. s. Missouri tras som worked bottom land. Westward quite a list of worked country mixed Forth orginal tural land. 10,58 Visibility gone. 12:30 base of Rochies -I'iher leah mts here very langelynd worded, a patchily so with open to dense confer stands. fille mon. Large bare interior valley before massive high The valley tetrente higher ranger much more worked and lack the bare welly areas farthereast 12:49 Farther west there are again

(:05) alarge was winding 105-1112 the area is about the most arche not monument. enous in set nochi.

ports in a dry tales

1971 Calyonia fouth of altamost Pans on han jongumenide, the have strans trees or lang should and are grassy møderete slopes; south sloper are treeless, noshy and ended-looking.

Kawai Hawaiian > 28 april & Sawai Valley (Paufic 150m Tropical Botanic garden ohen sloping volcame soil exect, pubercene white Nephrolepis multiflae (Rosh) fent Phyllanthus devilis erect common in radside ditch april 2 - Pripe Beach grounds of Sheraton Kana, Hotel 47 Ruppin maritima var. pacifics A.J. 1786. (8) abundant, rooted, in small probably artificial pand, not conspicuously backing at least in rainy period prostrate, crectury 49 Wedelin trilotata planted as bedding plant rooting at nodes, flowers tright yellow So Rubus molnecanus shiromatore, canes arching; (3) sterile, low here, but in another patch said of be very local in pasture my to 9-5 m tall, tangles. april 3 - Lawai Valley above Pump 6 (Parifix Tropical Botanic garden) in irregular morais of 51 Digitaria vegetation verylosal in varine reas water at vodes. Threating, noting (to pay 82)

april z - facorai Kai Cellerton garden
Verymanirmed jungle
with great range of
introduced trees, shouls,
vines, hebs.

april 2 - Porpu Beach (Sherater Raini botel) flora of basalt wich strand with storm leader much vegetated luchea indica Germoca per-capiar of trasilience Sesurium portulainitus Sporobolus originas Thespesia populner federola trucada Hornoen indies Leucaens leverephala Anchus oleraceus Camarina equietifolis Jacquementin sandwiener Eragrostes tenello Englisher glomerifers ruphorbig hints foursefutes argenten Sida fallax

These on a bom stretch without penetrating back into low serub vegetation on storm beach faither than could be seen from edge.

prostrate fleshy roots Thickened, corollar deep magenty pupile closed at 5:30 - 6:00 fo. m. defrened shoul, corollar to troadly campanulate, somewhat reddesh in center creeping stems radiating from thickened noot, elingate; leaver whitish beneath flowers white (all plants seen had white flowers) arismatic; flowers yellow, trust green. Gorming very large male, flowering transher ever, corollar bluish purple.

trees to 10 m tall.

Upul 10 - Halenhala Road 6500's Refreshing locality the wad widening did not

aliminate to Lepechinia plants - rare still bresent

on the top of the wood cut another substantial

clump is on an east slope 30-90 m in from the wad

Full flower.

Open servet, Styphelia dominant, Vaccinum common, a few tophora bushes, Pteridium, Coprosing errodicides, Polypodium Kellucikum, asplenium adientum nigrum tellaca! terrifolia (r), anthoxanthum Holaus, etc typochaeris radicala

frall gulth - walls have Sophora in some abundance, a fen aproma montana. a few Dodonala, I shrubby Dubantis considerable Expatorium adenopho um budly galled but still flowering! a few small Santalum

Crater Rim Halestrala many a most of the Dubantia shrubs in the main visita center area are dead or almost ou

mari

april 11 - writed Colin Lennes place, Kula 4000 fereral very healthy Lefrechinis glants in his garden, very vignously flowering, not a bad or namental - reddish moure flowers feed from usod on alope about - see p. 40.

many handsome forteaceas floweling - Vroley, Leucaspermy Leucadendron, etc. also some interesting Mystacear from Eristralia.

april 12 - flight Kahuleis - Hilo 9.55 am

bet. Hailing and Hang seems generally in from conditionpatches of gleichenia are abundant.

quicher below Haihu in cane a eas have strings of alcunites. Would be worth looking ints.

Much snow in Maura Kea, down to probably 10 000', some also on Maura Loa but not down as for.

Along Harnahua Coast w of Hilo much floating bagasse out a mile of one large cango at mouth of one large cango about half way bet, Laupahoche and Hils. Many box field, show Waterfalls conspicuous along the section, pouring into ocean. quite a bit of bagasse close in towas Hils. Volcano Road

Just below 3000' Tritorio very orange - apparent effect of 502.

Kilanea Iki Overlook Lycoprodium cennum in not unhealthy condition, Though slightly yellowish.

Chain of craters road, in repression with many old dead behind trees, allowed by post all small in flest 1949

Hiling Pali road, at
burned area Kipuka Nene
Kolina and alphitonia
planted in edge of kipula
forth fruiting.
In burned area Setaria
geniculata? Physalis perusias
fucholaenia agnostis avenaces
fitashystarpheto dichotoma
flantago laurerlata (roadid),
Light alvindant
Salvia coccines
Gudons films den comme

April 12 Puhiman Brater

Schwater np. 4 dead teams on mp 4 dead team, still on no 3 ests (toward enale from 4, 2 m from water)

Clead, no leaves but small twings still on)

mo. 5 - living many wings dead on living growth very leafy dark green healthy working.

Upper part very few

no 8? (pieces of tag on ground but lacking numbs. tree about in condition of mo 9.

dead troins

no 7 healthy with or few dead troigs all the way of and lending shoot dead some flowering

around Publiman.

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healthy tree with a few many episonic wigs.

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worked I would .

healthy tree with a few scattered dead Twings

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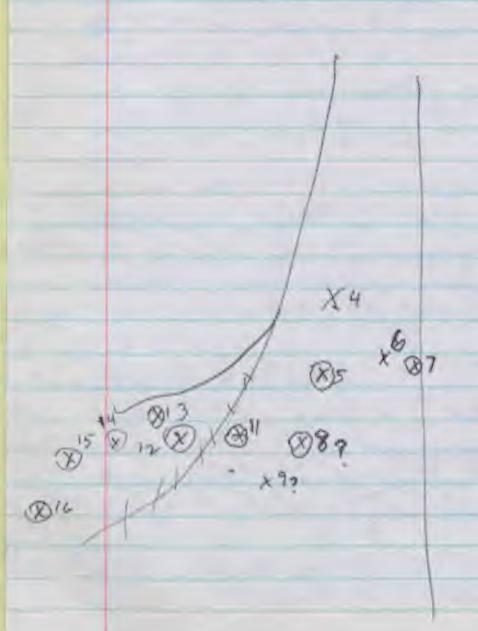
healthy tree with a few scattered dead Twings

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no. 11 new tag almost dend, with a
scattering of dull reddish
evit basal branch with most
twigs still alive for very
reddish dull yellow.

healthy tree with a few scattered lead trings

mostly faits a few dead twigg throughout buy mostly back on branches no epitermin twigg, rather sparse.

almost dead to J dead a few clump of very redyellow eliconnic twings healthy sprouts near base.

No. 15 Healthy large (10 m) tree, a few dead twings throughout, some healthy basal brancher, but no epicormic shoots.

no 16 Very leafy, but almost dead except for one healthy basal branch toward crater slightly more bealthy than set of upper part of tree.

april 3 road to Khaha Panul

Whote opinion of Kipulia Presenta

Whote good flower - tree now about

10-12 mtall, another at least

2/3 as high. It seplings, unbanded,
seen H. husbalanensis gone

I wo side of bence back A frach stulning contract I mide berne, murolegie est. luxurant, abundant healthy seedlings of Coproma Pryshery, to no back damage no frig nostyng Outseds almost all copyrma seedling dead, back removed with 1-1.5 m. fem much tous luquiant, absent in places much ping wolling. fence only a hog fence with one wire above it In norted places how seedlings are common, locally tallerthan room Geranium carolinamor v, australe abundant in relaterdy recent pig rollings a comeron before grass.

(to page = 4)

Hawaii - Hawaii Para 49 1971 Hawaiian Island 48 april 12 - Kelanea the overlook Dubantia scabra var. realing 3700' low sprawling shrub, metrosideros prest flowers white. april 12 - Pulimas Crater, Chain of Craters Road 3750 in open, degraded metrosideros freet 70 Vaccinium reticulatum Sm de should to 3-4 dm tall, very common leaves sliff, bright green. somewhat glaceton. glory, flowers red, ellipsoid. (4) 71 Jungus april 100 m recently deed metrosideros trubles 72 fungus on dead metrosiders, trunks dead some time July Jakilloff The Stall Short of the of By Dubantia scaling van scaling weak dway struck, flowers white. (2) very common

Hawaii - Hawaii Vole. 51 1971 Hawaiian h. 50 nay Park april 12 - Kipung mene 2975 Stead Hilling Vali Road 8900 tall metrosideron trees tree 4 m tall. 53674 Kotsia drynawides small planted trees tree 4m tall, fruit green (3) 75 alphitonia ponderoza Hod. small probably planted tres $\binom{2}{2}$ 76 Dromus rigidus local depressed trancending (3) 77 Digitaria lorns (2) culms spreading 78 Seturia geniculata to ascending, so very common in burned leaves slightly glavious over area april 12 - Heling Pali Road, 3300' between Kipulsa nene and 1000m Chain-of- Craters Road, depressed shoul 79 Scaevola Bilaneas Degener fruit black, bleshy, glorry local in open metrosideras (need sent to Pacific Propries frest on lave flows (notanie garden) april 12 - Hilling Puli 1500 2110 in woch crevices 400- 685 4 30 nephrolepis multiplom (Rost) fant (2) versional leaver very crisped in (4) 81 Aphenomeis chinensis (L) Warm occasional, also on Evanse Talus

Hawaii Volcanor national Park 1951 Howaiian b 52 ray white 53682 Galinsoga pamploralas. I on ledger below top of cliff rays white 83 galinsogs parribles lar in deel cavities in talus rays white 84 galinsoga parvilling lav on bank above trail, abundant ray white Jalinsoga franvilla Car. on trail below top of clifts rays white 86 Galinsoya parofloglar. on trail part way down clift. april 13 - Kepuka Puzula 40001 in semi-open frest 12200 large rosette from 87 Dayopteris erect rhizomo, francis locally common spreading to strongly weak stemmed, from q 88 Geranium carolinianum var australi thickened noot; blowers light pink abundant, especially where pigs have been rooting slender tres 4-5 m tall; 89 there sandwirenis young buds only. 4140 april 13 - lava flow just 12-600 below Kipuha Ki in tall metrosiders freit procumbent mot-forming 90 Osterneles anthyllidifolis hind. should, several on long, flowers white. 4 200 april 13. Mauna log Strip Road about 12800 Kipuha Ki suffratereent herborshruh 1-2 m 91 Stackytapheta dichotorna 4BK. tall, flower medium blue, stems black, locally abundant in grassland

54

fava flow (aa) below Cifulra Ki - partly sembcivered, Dodonaes, Styphelia. spare small metropiders, organina Vaccuium, occasional Polypodium palducidus Vant of this flow, a un adjacent one, has large Metrosideros, considerable fairly large Dodonaco a songe leafed, fairly large Wilistroemia is occusiona, Osternele, abundant, an elongate procumbent born Psilotum nudum rare, Carex walnessis abundant

mosaicof patches of acacia box frest, blyphelis vaccinium senit and Deschampina australia bunch grass.

Most vaccinium have is

V. peleanum, with bluish stiff leaves, dark maron surple flowers, trushes to 2 m tali
Lame V. reticulatum light green, lower statue.

Styphelia variable complex

6000' Exclosure 10x 100m in slope, butly then Atyphalia scrub with Deschamping, grantly broa freet. benced in 1967 July 1969 grass much thinner outside, no brog sprows, abundant sprout a 1 m inside, thick gran.

5000' styphelia serub with Itaridium Vaccinium z off. Deschampsia Dodonaen

a facit of Dodonala

Bet. Kymba Krand K. Preule along roadside Bulbertyles capillains and agains in si

Puhimas Nat Spot nechholepis-multiflore / on server metrosileros collina notural. Vilotum medum (on stars) "The . Cylienes polysanthing for Himbristylis dichotoms way. Tricholdena nozea Digitaria chinensis Bulbostylis capillaris (deed) (alexan) andropogon orginica Portulais sclerocaysa Walthers indica Kast whem enjugation teris dougholia" Buddlera assatica Engelorbic landa (devarful) Ophingtonen arundling graminibolis Lysopodium cernium Aphenomois chinenses ageratum congride Laccislessis indica Vaccinium reticulation top of timy Elaphoglossus reticulators Constant Wodonaia viscosa Styphelia tameramen Spothoglottis plicator lityrogramma calomelanos Lindson ensilomais Emilia javanior Congra can

anemore japenice rearby

		2337	
58	1971 Harvaiian &s.		Hawaii Volcanoes nat. Park 59
	april 13 - mauna Loa Strip Roal,	L 650'	
	Lookout	1025m	
	in serub alternating	1	
	with how frest in gentle slope	1	
	- styphelia		should 1.5 m tall, flowers white
	donning		
100	Styphelia		should 15 m tall, flowers white.
97	a styphelia	-	should 15 m tell " "
9 7	capacit mi		
	april 13 - Maura for Strip Road,	6200'	
100 00	in acasing box front	1890m	
6	l'armelia	6 1	
	on horizontal branches of	1	Carrier Carrie
D 91	The same of the sa	1	
1 3	abundant on brancher		
	and twings of trees		
(1) 90	Va-in heleanun thottel		shoul to m tel. leaves
10	· Vaccinium peleanum thotas.		glavious, plorivers maron
_	same - in open scrub	6100'	
1 9 97	styphelis tameiameias	1860m	shrub 2 m tall, flower
	dominant		shrub 2 m tall, flowers
1	Opril 13 - Road to Bird Park	1250m	
1	from Kilanea	-1	
0 00	in open serub on ash-covered lava	-	
(5) 98	Vaccinium reticulatum Im.		dwarf shrub 3-4dm tell,
	tornmon		leaves tright green, flowers
-			blood reg with green lobes.
10 00	Mall Selin man et: el allation		tule smewhat swollen.
(3) 99	nephrolepis multiflag (Post.) fanett		frond, erect.
	very local in filled lava crack		

1971 Hawaiian Is. Hawaii Volcenson nat, Park 60 61 april 13 - hot shot below 3600 Puliman Crater, Chain of Craters Road (100 m nearly bare hot early with many furnaroles 53700 nephrolepis multiplora/Rock.) Janett fronds erect in crack on low sturns eleanes curved, prostrato, Findristylis dichotomy var. abundant on or Ophinglossum locally common around mouths of fumaroles 03 Pteris paround mouth of furnarole 04 Pteris around mouth of furnands I dantound mouth of burnards 06 findsdeg ensilonmis? very rave, mouthy of feemande 5 98 07 nephrolepis multiplora (Rost) Janete Genet 1976 fronds erect in local dense stands, very common 08 nephrolepis multiflom (Roxb) Jamett Garrett, 1976 abundant around a furrande in croles ground near edge of open area april 14 Kalapana Beach, we Om. in freshowater prod back of Egeris densa Brill abundant loosely rooted or floating, flower white, emerced

10 = patches of ash in depression. c = craches (aber plants also in boles) 65 64 Lava flat to 100m bad was edged blow of cliff where lava is Rantana cainer Portulara (p) Waltheria andice Verhous cines fundristylis cymose Ecous Tephorais piscatorio Walthering indices (COV) Donyopteris desobien v. decog Euphorbia Chymifolia (P) Pluchea odvala (100) Carrio leschonaultions n Digitaria henryi (p) Trubolaeno Emile gavanues Varnygling righten Bidens pilos Indigofera of suffritions fava flat between road seedlings of Waltherio and 100 m from edge Carra c Vernonia cinera (p.) ve Heteropogen contentus (C+p) Chrysopogun? Doryopteris and nephrolepis very common o Pludiea odorata most mes ses in crevices or road - cut. a Nephrolefis multiflag (1) (tholes) Pahochoe lava entering a waltherin indica (p.45) sea in flows that streads vi thrysopoger aciculatus (pac) laterally along foot of low sea c Desmodium triflown (4) o Passifilma foetida Ph) diff, flywing outs fash black sand a cassia leschencultions (p) beach. Shallow greanish water aut about 100m. Dactylotterum agyptim () The Parpalum conjugatum () near sea

perfect of atulaca (p) near sea

perfect of Emilia javanira (p)

porteriore Emilia javanira (p)

conflictionistophelia Tamesmeias (p) one alung see

Conflictionistophelia Tamesmeias (p)

Tephora piscatoria todop) hava voying ant along beach side of flow, glowing, wanes bearing on seaward side of flow occasimally eming clear over. Wale boiling in pockets. o Firmhertylis harvairenin (20) new ses bentone carrang(c) away from see Bulbostylis capillais (40) away from sea

1971 Hawaiian &s. 66 apr. 14 - where 1971 flow cut Kalafron - Kilanen Road below handy Forest andry low sout near edge of thour of low 5)710 Indigofora tinetaus at edge of lava (survived in) exact of ot whee I suffer business was willed) () I Indigran suffritions near edge of lavo flow ldead branch billed when I tendris survived) same-plain for I mi 48 from 0 12 Portulara occasional in ash and center Tookets on palochoo flow. 13 Fumbertylis hawaiiansin reasimal in ash probets on valochol flow 14 Passiflon foetidal van occasional in small defiressions in palaetie flow april 14 - correct head of Kamail Flow on surface of Apahochoe lava 15 Chacomitrium lanuagnosum very rare, only a tufts seen in sheltered sport 14 (100000) very common

Hawaii - Hawaii Volcanoes 67

flowers salmen a old nose.

shout i m'tall, fla salman is

fleshy, bronze, subtereto leaves, finishmon roots, rose- junk
flowers, closed at 2 ym

rounded cushions

no capsules seen.

1971 Vingenia Faugure Co. 71 april 24 - Roland, S.W. base of Bull Run mits 2 mi. new of Thoroughfare gas between two streamlets in deciduous forest 53717 Vaccinium atrosoccum shrub 1.5 m tall branchets very local brownist, corollar greenist () 18 Vaccinium atvococcum very local, bank of stream shoul 3 m tall, branchet, green; corollar cream white. in blown Dentaria lacinista tholy Thatietum Thalietroides Viola st. Langunaus canadencis (almost past floroeung) filen carolinians Linders benzoon arisaema atrombens

June 29 - try a finland Left Washington about 630 am missed connection in W.y. Left my at about 12:40 am. arrived London 12:19. Left London Heathow at 1:50 p.m. High clouds and bad visibility. arived Helsinli about 5:45

Helsinki is built on or substrate of junk granite variegated with black, outeropping in low rounded bosses here and there Lift hotel Vaakuna at 11:20 Towned Helsinki. The Libelius monument in Schelins Park is outstanding. Drive from Libelin Parle to pollows il east side of take through a mosaix of mixed needle-leaf evergeen frest and broad-leaf deciderous frost and cultivations on a rolling extranse of low granite basses with defressions filled with manainal material, this cultivated in in soveador with many wild- flowers Much of the freet is a transition between broad leaf exception and needle.

leaf Regereration is Betula Popular, alna, Jalix. which are the principal genera in the broad - leaf Gnest. Conifer and I icea abies, Pinus sylvestis Saarinen estate

Very pleasing architectural and landscape complex. Outdon sculpture exhibitvery modern, many preces so far out a so artificial as tobe not pleasing but some superb examples. Over platanoide Lynnga syl. and many smaller mamental shrubs and herbs, in addition to the prines, birches In surrounding prest q ground cover of Vaccinium of

frif to Tyvaskyla through a continuation of the rolling worn-down granite of catena of knolls of hard noch and depressions with morainal rand and gravel Total relief probably not merothan 30 m a so. fame improvembed gradient of frest types.

1971 Finland 74

Wild or sem- wild trees. inus sylvestris tices abiles Betula alba (s.l.) Popular tremula Antous ancuparia alnus ace pseudoplatamis ace platomoides Salin

faarijaven Lummasaari

Vine-birch freet with ground cover of Vaccinium mystillus, V. vitis-idaen, with Clatanthero bifolio Geranium sylvaticus Varnica chamaedin firmas brealis Melangyum Pyrola notundifolis " uniflore

June 30 Pyhähakki Natural Park

Mixed dense frest broad less and needle. lead trees to 30 m tall 1-3 dm dbly trees 1-3m afrait. Has been no cretting in 300 years, but organisma fries. inus sylvestres Vicee abies Vopulus tremula Pretula puborcers forber avergans alpens

a of Vaccinium mystella a of Vaccinium mystella c V. vitis-idaea c Rubus and atilis le Unelypteris drysopterie a Athyrum e Maianthemun Calling voulgair n Galling voulgair n Lalia le Convallair marales le Solidago virgames

from before fires some dead large linus sylvertris (up to 4 dm dbh), some of them dead, are relicts from before the 3 forest bines. after the fires birch, aspen came perhaber some frim Unis established was gradually invaded by Vicea, which, without! buther fires, will gradually replace the birch and asken, gradus then even the fine. forming a dominantly showe frest. In the present frest gainly well along in this succession but still definitely a mixed frest, has many fallen trees, of all sizes. There are covered with more, traces, with more, traccinium, etc.

July 3 - feft fayvackeylact 7:3 gm.

Tor the first part of the

trip the proportion of breet

in the morais is as much as

90% with cleaned areas news

laberand words. Toward

Helsinhi it decreases to

perhaps 75 x 65%, still largely

pollowing roads, Lahe to

serve, freet mae unbroken

around them, a large boy

filed in labe Prophtion of

forest bernning less, but still

more than 50%.

July of Left Helsinki at 11:50 am. for amsterdam and Lopester of Great, grain fields and lakes, perhaps 50-45-57, the hnolls worked, the flut ground intivated former the patches but word thin, with rock showing through, more as flight progresser also proportion of, cultivation increases to perhaps 50-407.

Finland - Massachusetts 1971 78 79 June 30 - Pyhähäkki Natural Park, near baarigarven in sem. ofen managed Vices Pinus fort Vinus der Betulg froest with dense ground layer 53719 tinnala breatis L trailing, scapes erect, locally very common flowers puntish-white, fragrand. Fyropodium clavatum h. whizemes suproficial but very local buried in more layer, not very extensive. fully 2- fyvaskylä, 21 Caragina planted as an ornamental shoul 7,5 m tall with many stems from base. bruit immature July 23 - Sunderland Cascader transley to, man. non and berns, beside waterfall 22 Woodsia July 31 - Roland Center v mile n. w. Throughfar gas farguir Co. 23 Galinsoga ray white. weed near droelling, solving gardenfency 14 galinsogo Hollow Imes & tillalland may white the in weedy garden patch

1971 Finland - Estonia 80 July 4 flight eld. then proportion of water increased very much. The land gradually changed into anarchifulage of a myrad of small 12:08 islands, there are mostly very thinly worded and rocky. 132-11 then ling mer with search any vegetation. then the islands get larger - the largest partly cultivated or grazed, vartly rocky and thinly vegetated. several small towns. the archipelago ends abruptly. another ahead in distance. 1217 This is rather The Estimian cross Similar morain to southern Timband Langer proportion of cultivated land and of water than most of The Francisco southern Finnish landscape, but propolie, of forest increasing southward. Vinbility becoming very from a large city. 17:56 Land mostly cultivated, sea a short distance to right. alange lake, then the sea but no visibility - forg 171 1000 Land glumpsed dinly through the food.

Ordeans Co. 1971 newyork 82 83 July 23 - 25 miles west of fivelex Centes, just of north of Jackson P. Small hillock about 8-10 m high surrounded by cultivated frields. Hill is apparently an erosian remnant of bedded limestone containing Collections make and delinered to gus cooper, usnm.

July 25 Reverett Colso Ovens, head of Rattlesnake Gutter 2 large charcoal ovens near a beautiful stream and small waterfall.

Ovens have been in use for Mixed second growth mith guerrus ruha, Frasinus, are migun frasinus, thickets along stream.

Atream is Lawnel River.

Rattlesnahe gutter Joze with mised hemlosts yellow birch, quereus primes. ace mbum a. nigum, white birch, Guerrus ruba, Tilia americana, Francisco with Kalming latifolia Hamaneles, ace spicatum. Rubus odnatus Tilia americana. Fraxions are pensylvanium Rhodododendon of muliflorum good diversity of habitats. The goge is about 1/4 mile long, opening out below into a smewhat discreted flat with while prine and mixed nothern brandwood. a number of

Sunderland Cassador (Mt. Toby quadrangle 7'4' 4595)

Amall stream flowing
over flat beds framing
3 waite falls about 15-20 ft
high Ledges with abundant
liverworts, ferry asplenium shingoflyelur
on a low breecia cliff, woodsia'
us acres northern harborods
nice little marsh, Pozseble
gift to C.R.W.C.
Projects of Conn.R. Watershee
Council.

Whaton Brook State Park above new Haven near Wallingford. White Pine plantation. Very intensively used. Apillocers and athens
airport are gray-brown,
very day, shrubby
vegetation sparse on
slope, dense on relatively
level bill-tops and shallow
ravines.

golf-course very green,
with open stand of stare
funes.

Hills back of Bernit are generally worded on heavily brushy, but seen much built upon. Buildings nearly & tops. aug 21 - tip from Comber 5ts

woodland - open sout fract with open assess see should layer. Whongh Greanbyoun then "table - land", rolling slightly less hilly - very open to

semi-closed rather talle Eucolypta Little undergrowth. Cleared about 18802 some regrowth. Baidly eroded hills,

to bedrock.

a large basin with internal draininge, mostly open from for Rake george-an intermittent lake, water enough for mater shorts in raining periods. Dry, supposed supposed by evaporation, in dry priods - then Ded grazed by sheep.

then low-hilly country, closed to open Evealyptus forest, west of Boongen love. wen another basin, mostly

open.
Rochy brook withmana Creek now of Braidwood
& Bragenton.
Several Encalyptus spy.
ind E. paneigling - anow gumparallel reined by.

shots of fanices inf. Then very flat mostly Then country, a few scattered Enealypties, som I'mes blanted along frences. Warri Bridge, Shoathaven R. han to organize. grante river bed with Leptospermun. Lavin walls with mixed serul, rom Encalypters trees. Lornandra (aff. X withouthyes) "mat brush" acocia of. Lebtospermum Terrace worded frainly deniely. furrounding country cleared woodland.

Braidwood.
Lalix along creeks is all introduced.
No native decidences trees.

And hills bot. Duman Duna & Marlow Occacia botryocephala Pteridium roodside in Excalphtus forest. Petween Charleyong and newiga wooded with Encalphtus but large cleared areas. - woods fairly thick but not very tall. 92

1971 australia new touth Wales 95 94 Just north of Baternan's Bay Macrozamia & Pornas umbellatece Chyather mil, upon sloke 24'00' Energher monei in moist Euralyter fuld will thick underpowth. tree ferms common

new fruth Wales 97 australia 96 1971 aug. 21 - Marian Creek, edst of Bungendre, northwest of Braidward sin open forest on rocky slope) 53725 Evealyptus panciflour small tree with very light smooth back occasional small tree with rather 10 26 Eucalyptus dense round crown. orrasional aug. 21 fow hills between Duran Duna and Marlow fir voodsede in Execulyptus frest showl, flower light yellow. 27 acuria bolyocephala occasional about 5 mm thick. 28 Pteridium aguilinum common aug. 21 - Warri Bridge, Shoulhaven River slender shrub 1 m tall. 29 Leptospermum occasional on inegular granite river bed, submerged at high water aug. 21 - west end of 2000 -2000 ft Pigeon House Range, east of Endrick River 600-670 m bedded sandstone dwarf shoul 0,5 m tall 30 Platysace lanceolata 31 (lichen) very common on flat surfaces (over)

1971 australia new South Wales 99 shrub ing to 3 m tall, 53732 Carnauna distyla 3 common 133 Caustis occasional, very local shrul, flowers white 2) 34 Hakea? common purplish brown 2) 35 Carrytha occasional, entangling other plants devay shrub, 3-5 dm Tall, Was Bornia flowers pinkish white. very break should to 1 m tall, flowers 37 grevilles baneri orrasional dway shrub, flowers orange. Du 38 Dillwynia rosettes rather glavious. 1) 39 Stylidium derasimal, local 40 (cyp.) weally common sterile; very distribus. 41 Fornandra flexilis locally common De 42 Gleichenis supestris wery local in roudside ditch forming a dense may 43 Pyrosia on road cut shoul, flowers white. 44 Leverpogn of lanceolatum 45 Hymenophyllum on road cut 46 Cersonia fruit green, slightly oblique dway should I don tall, 47 Leucopogon - flower pintsish white locally common or flat surfaces stender erect showt 48 Olax white bids rellow green, flowers occasional

new fouth Wales 1971 australia 101 100 aug. 21 - At above Tranjana tells 1600 ft. Transang breck, west of Samepas 490mg in open frest on sandstone erect 53749 Restio locally common on the sandy stream margin weak, tangled. (3) 50 Banera very local on sandy stream margin shoul; flowers white 1) 51 Hakea occasional culms Tereto, erect. (2) 52 (sedge) common flowers white 1) 53 Efracis Prichilia Hirta d'. verasional 2.5 m tall; young growth O 55 Exocarpus yellowish; steril. aug 21 - about smiles not of milton, south of yatteratta in roadside serul in open Eusalyptus frest tongly twiner, blowers 56 Kennedig rubicunda Vent. 4(3) dark maronish red. occasional flowers bright yellow shrub; rays white dish yellow. 57 gordenia ovata 58 Oleaning 59 Commensonia frascri f. gay should to 2-3 m tall; flowers white. withing the ang. 21 Kialon State Frest. Cockwhy Creeks, south of Termeil erect 60 gleichenia

New South Wales 103 1971 australia 102 Bateman's Bay Dard in thin frest Clyde mt. 720m with the ferns small tree; leaves very glancous beneath. ang is Tidt get Tidbinbilla nature reserve small evert terfts. 63 Cheilanthes temipolis (D) common on open worky, grassy slope, somety cleared for pasture

1971 Hawaiian De ang. 71 West side of Kahulin Bay To got omsolidated de me mile, mill Un say I cover I nege a patches of Lencaera & Prosopis with open dune noch and sand between them. Heteropogen around clumps of bushes In openings Scarvola corraces Helentopon faterollers grandifolis Acaevola Taicada Lipochaeta integrifolis nama sandriciones Imbustyis cymbra Walthering under Lencarn lencosephala

aug. 31.32 Kula
There has been an extended
drought - Waihamir reservan
is down to about 2 ft of water.
Water rationed to a hours a
week.

Stady tarpheta jarraicenis anagallis arvensis fido fallas Bidens Censhrus echimatus fantana camana Tridas procumbens

Many dead achating fulies, a very few of a manow spines water shell() and on landeway side of dune, in repper edge of cornetery, many at a low spines an medium sized mation species (st, the last ters collected.

1. Englanding rosen to control who remarked on how som the suglanding (introduced about 10 years ago, to control aslating) had become forsil.

Oct. 15 - flight to ft. foris south of Front Royal (31000')(N.) Patches of frest on Piedmont show no significant ball coloring, Some shows up on Bull Run mits, but not much. a little in Blue Ridge, mas as we go west, est, on a high complex in the Shenandoah Mts. (7), but increasing altogether with elevation, as the most conficuous is an area of moderate elevation in west Va. moderale in w. Ohis. Haziness or what appears To be smog, a translucent leaginess, noted in eastern Ohis, increasing inequally till about w. This or Indiana ground is obscured completely

Virginia 112 Oct. 24 - trip to Roland Route is bet Beltsway and gainerville Colo change near its beightmyssa deep scarlet but leaves largely gone. querous generally still green except 9 palustris which is greening brown of raseinus butter yellow changing to deep purplish or firindendron bright light chrome yellow Carrya greenish yellow to deep chrome yellow to somewhat brownish. ace when light green to butter-yellow to somewhat Corning dull deep crimen to maron It. Klur glaba + typling vermillim to realet. some plants still partly gran Cercis yellowish in greenish yellow. Robinia yellowish green. fassafras greanish yellow through bright yellow, range 4 scalet.

Oct. 30 - New Orleans Mississippi River at audubon Park - belt of Lesbania sp. along see lever margin about 3-4 m tall, at this season leafless, abundant gods. Looks purple from a distance but close up not evident where the colo comes from . I vids are brown . home said to remain on until march.

Oct. 31 Belize Br. Honduras much natural or semi natural vegetation within easy reach of city mangrows in way from airfrait.

about somit south of Belize a large area of what appear from a dictano to be limentine mogotes.

dange cays just worth cap heavy on the forest with tall dead snags and trunks protruding up to twee the height of green regulation In one dre a comple of large buildings.

about it small cays. First has

a number of buildings of all sizes. a few cocos about a tall so to twice as tall as buildings. There are 4 houses no shrub, some grass In the other, there is only 1 Cocos, nather tall. Veg. is mostly mangrove or others in very poor shape, taller trees mostly dead. Several small remnants are only langles dead mangrover, water between, my end of the other 11 caps when a house the same one willto crear. The entire islats are affected ly the hurrisons.

no. 1 Robertson Island smubby forest much damaged by Hurrican Hattis-Many old bare trunks vising above low sent a sent frest. an engles mest in one old trunk meeagle sitting on it. 's other bald eagler sitting on old snags one near the next. On a remnant of a mangine cay north of himmons Cay 3 brown pelicans on old dead mangrove nost crown. On cay immediately withwest of simmons lay another

British Handuras Long Can 116 1971 117 nov. 2 - Long Cay eagle's nest on top of a broken-off tree-trunk! togged with Vapona One tall cocount palm on timmens wa. "dimethyl tulamid" bet. abbang wing Cay, also an abandoned house, 8:36 and 9:00 am. Laid & be rather sheldmized. the most harmless insecticit Oscasional flying fish. available. No apparent effect on dragon-flies the carp near lobaces Pars Libellula that are flying have much so taller and around in some numbers mos lucuriant vegetation Chorinated Terbenyl 40% with much bewer dead tree hunks. Clearly less influenced by Verbel extel annatic petroleum derivative Hurrican Hatti 2, 2 - Dichlorovingl dimethyl Total . tnest ingredient phosphate at 4 pm, entered the southwest fran of gloven Reef. contains 60% Chlorine. "Kill Flies Fast Southwest caylin covered by tall coronnt ties with my today, otherwise whont one small clump of shows in about the middle of the once a month. top of the beach in The pass side. Closer up some other, bushe can be seen. many seedling Shape of peninsula changes by Hurricano Francellia 1969 Rofel counts. Southwest Cant has dense undergrowth on without perinsula 2 years ago. Truncated just beyond of coronut trees beyond dining room. seaward coast snorth of beach noch straightenes out by this storm. Tregular mobile flat beyond cocount ther on peninsula built up in last 2 years.

118 1971 British Honduras

along lagran shore a considerable now of hiles my Thalassia Agringodium, targassum

amphipode and isoposts

bottle (

tent, Chrysonelid in throat of Hymenocallis franch around light, also other beetles befismes in tent, Colonists on new land at and of peninsular session portularastrum Conocarpus sectus Euphnobia mesembrianthemifolia Coscoloba unifera Tourrefortia gnaphalodes

120	1971 British Honduras	Long Cay 121
	Clants seen (+ collected)	
a	Coros murijera (generalezpen- Hymenocallis littoralis	
1111	boulder ridge near beach vods,	
0.	e Corrections erectus our	
das	de Tourneportie argentea over	
lc f	Eypeus planifolius	
	Servino potulacastrum Erithalis	
le lo	Euphobia mesembianthomifolis per Endia subcordata	
l'o	Burnelia Thrings	
a	Firmbristylis of cymoso Cigeratum Melanthera nivea?	
10	Distrocephala? Corroloba uvijan	
1	Euphorbia op.	

126 1941 British Honduras Floreri Reef 127 53785 Chilosen, vermenteris prostrate, forming long mats, stem bounist red sterile. Stems brittle. 36 Enphora stems spreading, smowhet locally common in open flat ascending, dull yellowish very prostrate on north side of island 87 r Euphorbia sub-fleshy, gland very local on open flat oppendages white. on worth side of island stems strongly accenting 88 Luphobia mesembianthemifolis L leaves very distichous. abundant around periplery of island in open 89) frances per-caprae of brasiliense (1) v. Oodstr. prostrate all seen sterile. very local on gravelspit very flaily, mat forming 90 v Lesurum portulacashum L blowers light rose junts. very common un open perpheny of Nov. 3 - Long Cay in cosmut ghave with very little undergrowth 91. Things perfor floridana forg. townhabout 6-8 cm diam, occasional near southwest erect, enlarged at base, up end of island, several to 3 m tall, infly and buds mature plants (with infls.) axillary, francle ascending and a number of very and arching, specimens small mes, plus very sinal from 2 plants, each 1,5 m tal. seedlings. gr. tumbristylis ef eymosa tubted, culms assending common in me area mear southwest end. heads grayish white, 93 Dichocetibals?? pool. Egeratam his abrowned leaves rather bleshy, (to \$130) very now on Vare sand

1971 British Honduras top gloven Reef 128 129 nov. 3 - Rain all morning and part of afternoon. callis on cobble ridge In center of north end of Cay is a great deal of primise publes, one Entada seed, and other feathered Coccoloba wrifers on back slope of beach ridge. items that appear to be drift - 150 m from lagon and 100 m from sea. targe area of typical atolf phosphate rock north of marshy area. Bright orange - brown white spechled. a few bushes of Burnelia just inside boulder ridge at edge of marsh. a few small bushes of Cordia sebestena Dominant herb layer in most of evenut plantation is agreatum sp. will serve Cyperus planifolius. The marsh is filled with coronat leaves. Amall commit trees planted on mounds of sand. Collected small smails on bottom of punice cobbles. also some very small insects.

130 1971 British Henduras glovers Reeb 131 (Long Cary atd.) 53794 melanthera & moved (c.) small? plant idm telp 95 Burnelia retura la. branched shrub 3 m tall, a ber busher back up cobble ridge an reason sid flowers whitish, 0 96 Mucung scandent on seedling seen strictly erect, slightly 97 Euphorbia (4) pilandome-shaped, the will, a brown bands, gilles white occasional 90 (bungus) 99 (fungus) pilens bright red, very mucilaginous, gills white. 6 33 300 (Jungus) puleu, gill, and slipe deep tan all on coronat word pileus, stip gills grale tan. 0 01 (Jungus) on thrings and coronet wood. nov. 5 - Long Cay (15) 02 Halodule small patch in bing sediments in lagron just off book of north peninsula an open serul on north much branched should about peninsula 0 03 Conoraques erectus L common 15 m tall 04. Barichia arbonescens (L.) DC low rounded bush, flowers occasional Jellow. 10 03 sporbolus virginiaus L culms ever from shigames locally abundant in opining and onliteach ridge. low rounded bush, flowere 06 x By Brithalis futicosa L. white. orcasional on bother coral

Pritish Hondings gloven cel, 133 132Water holes on both now. 4 - Alight around and middle and for lay I. anon atoll 12:40 p.m. Amall ampliturious plans feervard siele har Reaf north of ME cay Thalania in mederen First part excellent deleth water many sofon and grove second circular eval pratches margen for a mile or so, in this Thalassia, with clear that much less so. We sign of an algal ridge. after Palch seef, in lagur hav second curve, good spurant grove again. Thalasia you coral in everent shape on in shallow justion, clear windward sid sandy area with less and sand lagronward for on Lecurist. Hober about to about twice width of reef + Thatassia you. Sone small delle water. gard bars on inner edge of clear your losally. Wide shallow area at north and after a fairly wide channel or windward site. thur and groves extend a long distance out brown ref flat margin (2 0.5 - 1 km) into blue water. Considerable and along with the Thalassea on nect flat. Clean band in thalassis around exal patcher very hotor of cays Keef very patchy at south end. Very conspicuous white band around and clumps in Italassia. on ned bleet and also on deeper Thalassu body

glovers Reef 1971 British Honduras 135 no. Le Motheast Cay Frens Varfalum mants acrostichum aureum Ercos muijers Hymenocallis littoralis Engrosting Lomingensi Cinum st. wooleling triloba Sapota Lenving sinident seedling ourne orteg Endig sebesteny Conocarpus erects ambrois hispiles Typeur planifolius Borichia guticosas Timbristylis Pashalum Chloris petraen Euphnbia Terminalia catalyla Coccoloba Musuma (seedling) unoden litterales thrysobalanu isaco Bursera simaniba suphoba blodgettis Exphotin merentvanthenineed choriophylla nov. 5 - Long Can 53907 (seedling) no beast of passage ut vilens pale gray, gills turning 0 08 (bungus) on coconul log)

glover's Reef 1971 British fonduras 137 136 Nov. 6 - Northeast Can 53809 Terminalia catappa L tree 8 m tall, fruit green, occasional in rather open eg flower on low elongate transher near ground 10. Borichia arbonescens (L)DC. 4 low tangled bush, leaver fleshy, small spatch in erect shrub 0,3 m tal, 11. Eughorbia VD several yelants milley. lufted, culms almost evel, 12. Chloris petraea sw. (4) very local tengles fruiting 13 - Parpalum pleostody Doll V (10) locally common should im tall, fruits turning 14 " Lithallis Gruticosa L. oursimal pinhish. (Other plant, seen to 1.7 m tall) 19 Funbuslyles of cymosa write 6 Polyhorns on notten coconut loy. ligyellow. 17 Copienus? in notten cormut log small tuft, culmi (19 18 ragnostis domingensis Pers erect, franciles arching common locally in low place um flowers cream color will 19 Parsifla subersa L. reddish bases to cerena regments versional - who fruit dark blue. so typens planifolius L. C. Rich. small trifts, culm somewhat spreading. common (10) 21 Wedelin trilpbata (4.) Hitche. prostrate, formers mats flowers yellow.

geneis Reef British Honduras 139 1971 138 same - on reaward beach 53822 Emphabia prostrate, pale green. small colony on nather fine an conall gravel prostrate, stems reddesk. 23 . Des Enphabig blodgettii on tree mosts yellowish green, buds only. 24 Burnelig retura Sw. one clump (same, rubble flats along north shore 35 Sporobolus virginieus 9 sparse stand, culms common in rather sandy spits ascending to eved. shrubs 3-4 m talf. 26, long carpus erectus 27 to Ernodea litteralis occasional, scattered bushes langled low mound like (10) showles, leaves rather fleshy, flower purple, but orange glady 0 28. Euphorbia bloodgettii Engelon. os Hitche. of grastrate, stems redderly. nave, on or uprovoled cornut stump. 29 (seedling) of beach low mound-like shrul. 10 36 Chysobalanus icacs L. low shrub, steril. occasional, acattered should (4) 31 Loccoloba moifera L. oreunand to same - in Burser grove in interior of island & show 4 m tall, sterile. 32 Lagracularia! Nea choriophylla Stand small colony 33 toto so to ta Pouteria campechiana Buchini shoul i mtall sterile.

1971 British Honduras glover's Reef 141 140 53834 Bursera simamba small tree to 8 m tall, barle red-brown, peeling, dominant smooth, steril. barre, - an haran just back of beach prostrate, leaves very on lagoon north corner. (4) 35 fesuring maritimum 6. fleshy, for glossy, of common borning mats 36 Townefortig gnaphalodes (W) RBn. low spreading gray shrub, blowers white. stems erect, spreading at tops 37. Enphorbia mesembianthemifolia very common 38 (gen) Paspalum plantachymothett. mat-like sod; thereby stail. (1) same - on passage 39 Endig sebesteng Long. tree to > on tall; plower (10) crange- vermillion. emmon 40 ambrosia hispida Pursh prostrate, forming 9 (19) love mat; racenes erect. locally abundant here and in coconit groves. nov. 7 - northeast Cay back of shore. 411 Hymenocallis littoralis (Jacq.) talist. small clump, ssapes (4) compressed, with a beels. very local about in tall, flowers white; leaves distichous. 42. Crinum scape about 0.7 m long, TV one plant seen leaves spirally urranged (to. p-144)

gloven Reel British Hondings 1971 143 142 nov. 9 - air trif to Lighthous nov y- northeast Cay Keef, Left, 9:15 a.m. Weather very still, broken clouds. Center of islet has a mixed forest of Burson 4 Coconil with >3832, Thrings sea glassy. Coxxoloba partly on flat rather fine soil, partly broken end rubble forme humus accumulation, but mixed with coral sand and pebbles for phosphate in a pile of boulders, but none seen in place. Lorall water depression Villed partly with acrostiche myet send on boulder vidas neeg Burnelia Cordia Execololy Townefortia

glovers Reef British Honduras 145 53843 Englarbia blodgettii Engelm. ex prostrate; items reddish abundantebeallyon coarse shap boken and rubble (1) 44 (seedling) on coral sound, 12 Ficas very touch same - in serub on coarse scoral brullerridge. Adensely tranched 10 45. Fiers ovalis (fielm) mig. shrul 1.5 m talf. 13 46 need chorrophylla standl. Rosally very common shrubs 4 m tall inflorence pendulores, ripo fruit red, fleshy. same - in Bursera grave in center of island 1 47 Bursera simaniba h. blower whitish. 1) 48 1, noon? same around water-tole near center of the island. thingon to 0.4 m tall, (4) 49 acrostichum aureum 1 nos. 7 - Long Can in 2 m. defith whiter 10 50. Stringodium filipnme Kits.

abringodium filipnme Kits. surleaver tirete; sterile. Malarsia of meadow

5 57 a clavaria ring wood

5 58 thy dark minoring wood

5 58 thy dark minoring wood

5 58 thy dark minoring wood

9 5 53. Batis maritima L.

common in edge of

3 54. avicennia germinans (L.) L. scattered as in open part of

9 55 Laguncularis racemosa dorninant in landward side of swamp

3 56. Cordin south side - sebestera L.

(6) 57. Brishing arbnessens (4) Pl.

1 58. Sparting potens (ait) Muhl.

Locally dominant back of

To page 154

gills salmen pink, pilaus deeper salmen pinks, stips salmen changing downward to yellow, whole Peream-white, gills slightly darker.

roft cartilagineous, burnt neng coln.

dwarf should ristly arching stems, fleshing leaver and fruits.

spreading tree 5-4 m tall, surrounded by pneumatophoies, leaver whitish beneatly, sterils.

small sterils tree,

4-5 m tall, leaves green beneatly, surrounded by club-shaped preumatoplines

I danse rounded should I m Tall: rays yellow dearenfleshy dense stand briggsoms deeply buried, sterile 148 1971 British Honduras

Nov. 9 Corrived Lighthous
Reep 9:25 am.

Long Cary
Half moon Cary Leen from

northern Cary a distance.

surpace.

Sandbore Can Sandbar Card Sandbar Candra Sandbar Can only a tiny sandbar Candra Sandbar Candra Sandbar Candra Sandbar Sandbar Candra Sandbar Candra Sandbar Sa

Made several passes over Half Moon Cay but could not land. Vegetation on small end very spranse corner grove. Village of several biouser here Dense scrubby from the large portron somewhat chlostic. Many red fooled bookres in tress and flying.

yhoto of coral patches (beind roll.)

Nov. 9 - Southwest I Cay Mostly rather thingy planted to cocourts. most of area sandy. Patch of Khizophora on passage side. areas of Sponobolus virginius near beaches. Farge patch of Hearting with some Findristy is near lagon and of pass l'atches of capraira, and there. The Patches of Passiflers. Rivina dominant oner much of interior of coconut grove. Large patch of Eritalis new south end Only & small Tourne forting seen! Homola macrantha common broally in gove. I per capae scarie on s. w. end and south part of baggon beach.

Plants: Coros murifera Sporobolus virginizus Paspalum distichum l'asfraliem Eragrostis domingensis flating? Wedelia triboliata Eughorbia mesembrianthemps Emphorbia bladgettin inphorbia. Conraque enestus terminalia catappa Tresino Portulara oleracea Capraria bifles Generalia cataffy Cenchus parciflorers Erithelis fruticosa (tymenocallis ageratum litterale Kiving humilis Cyfseries planfolin fimbristylis of aymora assifted suberosa spomoea macrantlea Gromora per capine Khizophora mangle Cocioloba unifera Townefortia Sesurium portulacastum Canavalia rosea Suriang mailing

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2. a

glover's Reef British Honduras 155 154 Southwest Cay I (ctd.) same - on passage side, men mangine steril 53959. Paspalum distichum Distally abundant same - in sparse cormit grove near abandoned dwellings 60. androprogen singinous glimeratus single erect culmi same - south side soon shingle ridge small bushes, all seen 10 61 - Townsforting graphalodes (L)RBs sterile ittelling in open cornut group 62, Chloris petracy D 63 ragnostis domingensis (Pers) Stew 64 Stachstapheta jamaicensis flowers pale blue-laverda. 1) 66 (assifting suberosa L flowers white 17 Capraria beflow (2) 968 Sithali fruticosa L. 79 nov. 9 Southwest cay II fleshy, leaves oborate, (3) 68a. Portulaca o leracca L. flowers yellow, closing on sandy ground in correct about non, stamene 12-20, style brancher 3-5; mostly 4

glovers Roef 157 British Honduras 156 F15 nov. 9 - Southwest Can II open coronut plantation on sandy soil, northwest enf clientes, culm erect or according. 3869 Fimbistylis cymosa R.Br. locally common in small tusts, culms ascending hlnis petrea occusional in culms assending, panicle 71 Pragrostis domingensis (Pers.) Stend. 12. Paspalung pleastachym Doeb. Legum Conculms depressed to according. very local culms erect, not tufted. 1) Vaspalum distichum L. common near passage beach forming a loose sol, 4) 74 Sporbolus virginieus buried hizomer. dominating some areas now beach. 3 75 sparting! patens (ait.) Trull. sterile area near beach prostrate ralmost 16 Euphorbia so, stems green, leave, very emma near pale beneath. passage beach. erect, somewhat brinches, 77 caprain byling prostrate styms reddish; mats, leaves very fleshy, flower. dominating large patches 78 Sesuvium portulacastrum 1 local on and just back rose frinks of bearter prostrate, creeping, 79. Canavalia rosea (Sw.) DC. flowers bright rose pinh. occasional in flowers rather light blue 30 & Cachy tarpheta jamaicensis(1) Valit local, in places common showly flowers white. 81 morinda citrifolial. rand, 2 small plants seen

glover's Reep British Honduras 1971 159 158 53882 53882 Herminalia catalina L. sterilo. one timy, partly dead plant seen back of beach crest, plus one reedling. 83. Cabile lancerlates (Willd.) Schulz! sterile 2 seed to small plants only in small tufts, culms ascending 89 Cypens planifolius L.C. Rich. turnon generally in event, spreading toward of. 35 Euphorbia mesembrianthemifolia L. fairly common, mostly near beaches vine, flowers cream color, 86 Vassifling suberosa L very common, evering corna segments dans at base; ground locally in patches. fruits immature. 9 87 . Einfohorbig blodgettii Engelm exHotele. stems prostrate to ascending very local in in and archang, reddish. (4) 88 resine diffusa H. B.K. emmon suffruterent herb. 39 Riving humilis L. mucht of coconut grove. same - pursaye beach large tree, pallendut (1) 90 Conocarpus exectus 1. same - sand plats in south end of cay culms rather depresses 91. Cenchuz panciftonis occasional back of lagon beach 92 Apringer per capital sof brasiliense (" " Postoti. (4) occasional backs of lagron beach

glovers Reef 1971 British Honduras 161 160shrubs 2.5 m tall, 53893 Auriana maritima of fruit immature. very local just back of beach 13 94 Coccoloba uvifera L. depressed should, 4 dm Cell, sterile. one small plant just back ofbeach shows in tall, flowers 95. Erithalin fruticosa L. black glossy. large patch on interior flat, a few plants nubble ridge. 96, Ipomoer macrantha R. + S. extensive twiner, flowers very common in large white, collapsed just patch interin flat. after non; accrescent 97 ageratum litterale gray sepals fleshy. plowers pale lavender o (10) bluish lavender. abundant in large patcher 98 i Ernodea littralis Sw. low mound - like bush 16) 0, im tall of arching branches one plant seen noting at tips, blowers puplish 99 Cypeur planifolius Rich. small spreading to ascending trifts. 53900 Townefortia gnaphalodestin. sterile two small plants, only, seen 01 morea stolonifera spreading, mat like, one dense patch not Mizones superficial of slightly buried; sterile four from passage beach or Chloris petraca culmi accending. very break prostrate, erespring, 03 wedelig trilotata (L.) Hiller. forming loose mats; total, yellar. common in patches same in water in passage of Rhizophora mangle L. species and small sterils trees 4m tell.

glover's Red 1971 British Honduras 163 162same an mobble ridge back of gransage bearly distictions; plowers white anther 53905 . Hymenocallis littinalis (Jacq) talist. occasional very locally and pollen orange. same on notting commit 06 Polypour cinnabarious gills vermillion, pileus vanger orange and emmon whitish banded. nov. 12 - West Channel 07 Malassia testudinarum Kren, v Simo sterile open stand on sandy rocky bottom of channel, whizemes deeply build Nov. 12 - Forg Cay in open selub on north peninsula low rounded gray bushes, 08 Tourselntia gnaphalodes (L) KBr. (11) blowers white, fragrant. very common shrubs 1-1,5 m tall, flowers 09 Luciang maritima L. (10) yellow; leaves become very commos closely appressed to stom, during storms and at night. spreading during day unless stems prostrate, forming 10 sterwiew grotulacastrumb very common gust back of Jeach mats, leaves very fleshy, glossy, green, flowers nose frinks. to p (68

nor 12 brot trif to leeward

to come several hundred on south, mostly down near waves, but occasionally up to so - 30 m, looked at reveral patch resp. first of which had a week above surbace didn't stop. Finally at near center of lagoon was a patch reef with a tiny gravel bas capet settled here. I light seemed very direct and purposeful

Wyeddle Cay-Largelyplanted to coconets, but with substantial mangiove area with you in middle, fearand side of this fruitially stripped of mangrover and a tough plat layer (sample exposed on inner hart of red glas mangroves between strong and food are buried to a meter a more defith in course coral gravel, and looking very your (west sample) south of this swamp is a tricket of Pathecellotown with a few large tree of Corcoloba Terminalia et int besurium and Luciang extremely searce. I aspalien dominant ground are he large area of cocount grown well of old house, mixed fred of near tiens, etc. on boulde ridge, along with much Townelotes. Enodes very abundant on this cay. In north years practically pure stands forming a tangles low soul.

168 same - in coconut grove on sandy flat ground 53911 ageratum mitman H.B.K. lettoralet very abundant, forming ! 14, ageratum maritimum H.B.K. Crame as 53911 but apparently 13. Cyperus planfolius Rich. common same - on seaward bruther 14. Cordia sebestona i. (3) a ben low shrubly plants 15 Aymenocallis littoralis (Jacq.) falil. (5) (also planted along paths) same - or at top of lagor beach 16 Sparting ? patens (act.) Thurle very sparsely scattered in stands of Abordolus. Detation in middle Cay in middle of can in frest remnante 17 . l'itherellobrum tregense Britt. Che (5) abundant 18 Erithallis frutisosa L. (3) 2 19 Thrings floridana Larg. String radiata Lad +x Schille & Duice

bluish lavender to

small tufts, culms

flowers bright crange-red scape compressed, sharpangled, blowers while

erect, small tugts.

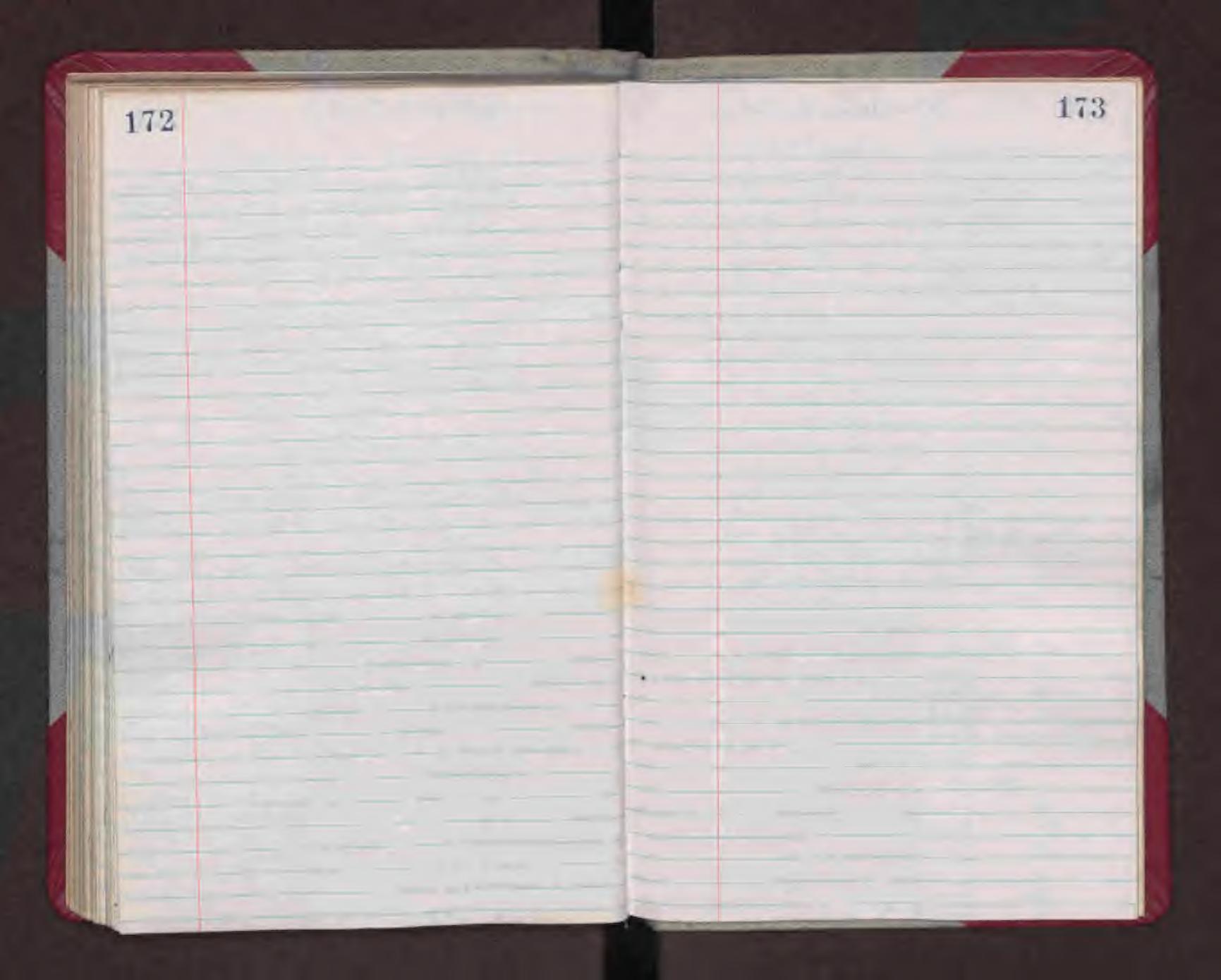
shrubs to y m tall,
all seen sterile.

shrub to 15 m tall, flowers white

single stem 3 m tall.

with paniete drooping.

Glove's Red 171 British Honduras 1971 170 to same on lagon beach stems prostrate, forming 39 20 Sesurium portulacastum Very local, seen ny at mats, leaves very fleshy, show of mall, steril 79. Ifibiseus tiliaceus L.
ras ne small plant seen. same - or notheest 22 Diodin maritima Thom. alequenced, blowers plant seen same - on beaute boulder 23. Enthulis frutisma L. shrub Intall, flowers (6) white, fruit black when ripe 24 Townsbotis gnaphelodes (L.) B's low rounded gray bushes, fruit fleshy, tall abundant green, flowers white, orgrant. or many line many new plantation an sand flat o.c m tall, 25 repholis very everal. Nov. 12 - Long Cay, end of roll persons 1 26. Courtrba unfina L. low steril shoul about 6-7 du long. me small plant on now spirt Smilt since 1969



174 1971 Massachusetts Dec. 24 - Shutesbury Fosberg - Blunt property and open blueberry barren nost adjacent. 72°26 W 42°27" N the racer owned are in rather young secondgrowth woods of Pinus strobus and associates, crowded, mostly less than is in dol. Vinus strobus l'inus pigida Truga canadener Betula papyujera quereur corrinea quereus rubra fuereur alba Oren rubrum Betula populifolio Shoules Vaccinium sp. (low buch) Kalmin latifolia Kalmig angustifolia Vaccinium crymbosum gaultheir moumbers Lycopodium obscurum v. obscur Coptis groenlandica 10 Eligaea ropens freeholla shortum freeholium etavatum freeholium emplunatum

